# **Report of Analysis**

Tetra Tech, Inc.

One S. Wacker Drive, Suite 3700 Chicago, IL 60606 Attention: Bruce Welch

Project Name: Joliet Chemical Fire PRP Clean UP

Project Number: 103X903100690002AJ001

Lot Number: UL05034

Date Completed:12/10/2019

N. Saitaly

12/10/2019 3:47 PM
Approved and released by:
Project Manager: Nisreen Saikaly





The electronic signature above is the equivalent of a handwritten signature.

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Shealy Environmental Services, Inc. 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative Tetra Tech, Inc. Lot Number: UL05034

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" qualifier

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Sample UL05034-010 (MPGI-RB-120419) Collected: 12/04/2019 at 1315 was received in a broken container. Results are not reported for this sample.

#### **DRO**

The matrix spike and matrix spike duplicate (MS/MSD) recoveries in batch 38050 were outside acceptance criteria. All other QC criteria for the batch was within acceptance criteria and method control limits. The MS/MSD recovery results are attributed to matrix interference. The associated sample results were reported and no corrective action was required.

## Sample Summary Tetra Tech, Inc. Lot Number: UL05034

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MPGI-North-Soil-01-120419	Solid	12/04/2019 0826	12/05/2019
002	MPGI-North-Soil-02-120419	Solid	12/04/2019 0835	12/05/2019
003	MPGI-North-Soil-03-120419	Solid	12/04/2019 0900	12/05/2019
004	MPGI-North-Soil-04-120419	Solid	12/04/2019 0927	12/05/2019
005	MPGI-North-Soil-04-120419-D	Solid	12/04/2019 0929	12/05/2019
006	MPGI-East-Soil-06-120419	Solid	12/04/2019 1037	12/05/2019
007	MPGI-East-Soil-07-120419	Solid	12/04/2019 1105	12/05/2019
800	MPGI-East-Soil-08-120419	Solid	12/04/2019 1125	12/05/2019
009	MPGI-East-Soil-09-120419	Solid	12/04/2019 1257	12/05/2019
010	MPGI-RB-120419	Aqueous	12/04/2019 1315	12/05/2019

(10 samples)

# Detection Summary Tetra Tech, Inc.

Lot Number: UL05034

Sampl	e Sample ID	Matrix	Parameter	Method	Result	Q Units	Page
001	MPGI-North-Soil-01-120419	Solid	TPH-DRO	8015C	12000	ug/kg	5
002	MPGI-North-Soil-02-120419	Solid	TPH-DRO	8015C	33000	ug/kg	6
004	MPGI-North-Soil-04-120419	Solid	TPH-DRO	8015C	15000	ug/kg	8
005	MPGI-North-Soil-04-120419-D	Solid	TPH-DRO	8015C	16000	ug/kg	9
006	MPGI-East-Soil-06-120419	Solid	TPH-DRO	8015C	69000	ug/kg	10
007	MPGI-East-Soil-07-120419	Solid	TPH-DRO	8015C	220000	ug/kg	11
800	MPGI-East-Soil-08-120419	Solid	TPH-DRO	8015C	69000	ug/kg	12
009	MPGI-East-Soil-09-120419	Solid	TPH-DRO	8015C	99000	ug/kg	13

(8 detections)

Client: Tetra Tech, Inc.

Laboratory ID: UL05034-001

Description: MPGI-North-Soil-01-120419

Matrix: Solid

% Solids: 75.6 12/06/2019 0032

Date Received: 12/05/2019

Date Sampled:12/04/2019 0826

Run Prep Method **Analytical Method Dilution Analysis Date Analyst Prep Date Batch** 2 3550C 8015C 12/10/2019 1324 CHG 12/10/2019 0935 38432

CAS Analytical **Parameter** Number Method Result Q LOQ DL Units Run TPH-DRO 8015C 12000 8900 4200 ug/kg 2

Acceptance Limits Run 2 Surrogate Q % Recovery o - Terphenyl 55-120 95

LOQ = Limit of Quantitation ND = Not detected at or above the DL B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis P =The RPD between two GC columns exceeds 40%

 $J = Estimated result < LOQ and \ge DL$ 

Shealy Environmental Services, Inc.

Client: Tetra Tech, Inc.

Description: MPGI-North-Soil-02-120419

Laboratory ID: UL05034-002

Matrix: Solid

% Solids: **79.9 12/06/2019 0032** 

Date Received: 12/05/2019

Date Sampled:12/04/2019 0835

 Run
 Prep Method
 Analytical Method
 Dilution
 Analysis Date
 Analyst
 Prep Date
 Batch

 1
 3550C
 8015C
 1
 12/09/2019 1219
 CHG
 12/05/2019 2318
 38050

CAS Analytical **Parameter** Number Method Result Q LOQ DL Units Run TPH-DRO 8015C 33000 8200 3900 ug/kg 1

 Surrogate
 Q
 Run 1 Recovery
 Acceptance Limits

 o - Terphenyl
 59
 55-120

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

H = Out of holding time

B = Detected in the method blank

DL = Detection Limit

N = Recovery is out of criteria P = The RPD between two GC col W = Reported on wet weight basis

J = Estimated result < LOQ and ≥ DL

Shealy Environmental Services, Inc.

 $<sup>\</sup>label{eq:power_power} E = \mbox{Quantitation of compound exceeded the calibration range} \\ P = \mbox{The RPD between two GC columns exceeds 40\%}$ 

#### **TPH - DRO**

Client: Tetra Tech, Inc.

Laboratory ID: UL05034-003

Description: MPGI-North-Soil-03-120419

Matrix: Solid

% Solids: 78.8 12/06/2019 0032

Date Received: 12/05/2019

Date Sampled:12/04/2019 0900

Run Prep Method Analytical Method Dilution Analysis Date Analyst 2 3550C 8015C 12/10/2019 1344 CHG

**Prep Date Batch** 12/10/2019 0935 38432

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
TPH-DRO	_	8015C	ND	8400	4000	ug/kg	2

Acceptance Limits Run 2 Surrogate Q % Recovery o - Terphenyl 55-120 96

LOQ = Limit of Quantitation ND = Not detected at or above the DL

H = Out of holding time

B = Detected in the method blank N = Recovery is out of criteria

W = Reported on wet weight basis

DL = Detection Limit

 $J = Estimated result < LOQ and \ge DL$ 

Shealy Environmental Services, Inc.

E = Quantitation of compound exceeded the calibration range P =The RPD between two GC columns exceeds 40%

Client: Tetra Tech, Inc.

Laboratory ID: UL05034-004

Description: MPGI-North-Soil-04-120419

Matrix: Solid

% Solids: 79.9 12/06/2019 0032

Date Received: 12/05/2019

Date Sampled:12/04/2019 0927

Run Prep Method **Analytical Method Dilution Analysis Date Analyst Prep Date Batch** 3550C 8015C 12/09/2019 1258 CHG 12/05/2019 2318 38050

CAS Analytical **Parameter** Number Method Result Q LOQ DL Units Run TPH-DRO 8015C 15000 8300 3900 ug/kg 1

Acceptance Limits Run 1 Surrogate Q % Recovery o - Terphenyl 55-120 63

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range P =The RPD between two GC columns exceeds 40%

DL = Detection Limit

ND = Not detected at or above the DL H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis  $J = Estimated result < LOQ and \ge DL$ 

Shealy Environmental Services, Inc.

#### **TPH - DRO**

Client: Tetra Tech, Inc.

Laboratory ID: UL05034-005

Description: MPGI-North-Soil-04-120419-D

Matrix: Solid

% Solids: 79.3 12/06/2019 0032

Date Received: 12/05/2019

Date Sampled:12/04/2019 0929

Run Prep Method 1 3550C

Analytical Method Dilution Analysis Date Analyst 8015C

12/09/2019 1317 CHG

**Prep Date Batch** 

12/05/2019 2318 38050

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
TPH-DRO		8015C	16000	8300	4000	ug/kg	1

Acceptance Limits Run 1 Surrogate Q % Recovery

o - Terphenyl

55-120

LOQ = Limit of Quantitation ND = Not detected at or above the DL B = Detected in the method blank

P =The RPD between two GC columns exceeds 40%

E = Quantitation of compound exceeded the calibration range DL = Detection Limit

H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis  $J = Estimated result < LOQ and \ge DL$ 

Shealy Environmental Services, Inc.

Client: Tetra Tech, Inc.

Description: MPGI-East-Soil-06-120419

Laboratory ID: UL05034-006

Matrix: Solid

% Solids: 77.3 12/06/2019 0032

Date Received: 12/05/2019

Date Sampled:12/04/2019 1037

 Run
 Prep Method
 Analytical Method
 Dilution
 Analysis Date
 Analyst
 Prep Date
 Batch

 1
 3550C
 8015C
 1
 12/09/2019 1336
 CHG
 12/05/2019 2318
 38050

CAS Analytical **Parameter** Number Method Result Q LOQ DL Units Run TPH-DRO 8015C 69000 8600 4100 ug/kg 1

 Surrogate
 Q
 Run 1 Recovery
 Acceptance Limits

 o - Terphenyl
 72
 55-120

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

B = Detected in the method blank

P = The RPD between two GC columns exceeds 40%

 ${\sf E} = {\sf Quantitation~of~compound~exceeded~the~calibration~range} \quad {\sf DL} = {\sf Detection~Limit}$ 

H = Out of holding time

N = Recovery is out of criteria
W = Reported on wet weight basis

 $J = Estimated result < LOQ and \ge DL$ 

Shealy Environmental Services, Inc.

#### **TPH - DRO**

Client: Tetra Tech, Inc.

Description: MPGI-East-Soil-07-120419

Laboratory ID: UL05034-007

Matrix: Solid

% Solids: 84.3 12/06/2019 0032

Date Received: 12/05/2019

Date Sampled:12/04/2019 1105

Run Prep Method 1 3550C

Analytical Method Dilution Analysis Date Analyst 8015C

12/09/2019 1434 CHG

**Prep Date** 

**Batch** 12/05/2019 2318 38050

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
TPH-DRO		8015C	220000	7900	3800	ug/kg	1

Acceptance Limits Run 1 Surrogate Q % Recovery o - Terphenyl 55-120 86

LOQ = Limit of Quantitation

H = Out of holding time

ND = Not detected at or above the DL

B = Detected in the method blank N = Recovery is out of criteria W = Reported on wet weight basis E = Quantitation of compound exceeded the calibration range P =The RPD between two GC columns exceeds 40%

DL = Detection Limit

 $J = Estimated result < LOQ and \ge DL$ 

Shealy Environmental Services, Inc.

Client: Tetra Tech, Inc.

Description: MPGI-East-Soil-08-120419

Laboratory ID: UL05034-008

Matrix: Solid

% Solids: 90.4 12/06/2019 0032

Date Received: 12/05/2019

1

Date Sampled:12/04/2019 1125

Run Prep Method **Analytical Method Dilution Analysis Date Analyst Prep Date Batch** 3550C 8015C 12/09/2019 1453 CHG 12/05/2019 2318 38050

CAS Analytical **Parameter** Number Method Result Q LOQ DL Units Run TPH-DRO 8015C 69000 7400 3500 ug/kg 1

Acceptance Limits Run 1 Surrogate Q % Recovery o - Terphenyl 55-120 95

LOQ = Limit of Quantitation ND = Not detected at or above the DL B = Detected in the method blank

DL = Detection Limit

H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis  $J = Estimated result < LOQ and \ge DL$ 

Shealy Environmental Services, Inc.

E = Quantitation of compound exceeded the calibration range P =The RPD between two GC columns exceeds 40%

Client: Tetra Tech, Inc.

Laboratory ID: UL05034-009

Description: MPGI-East-Soil-09-120419

Matrix: Solid

% Solids: 94.9 12/06/2019 0032

Date Received: 12/05/2019

Date Sampled:12/04/2019 1257

Run Prep Method **Analytical Method Dilution Analysis Date Analyst Prep Date Batch** 3550C 8015C 12/09/2019 1512 CHG 12/05/2019 2318 38050

CAS Analytical **Parameter** Number Method Result Q LOQ DL Units Run TPH-DRO 8015C 99000 7000 3300 ug/kg 1

Acceptance Limits Run 1 Surrogate Q % Recovery o - Terphenyl 55-120 96

LOQ = Limit of Quantitation ND = Not detected at or above the DL B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

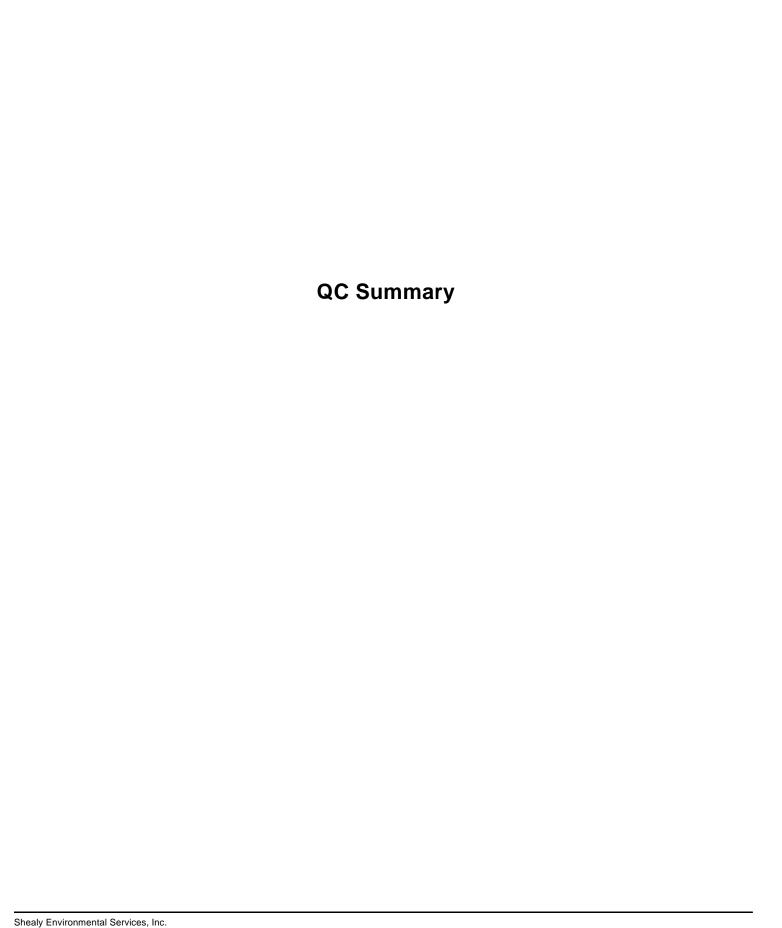
DL = Detection Limit

H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis  $J = Estimated result < LOQ and \ge DL$ 

Shealy Environmental Services, Inc.

P =The RPD between two GC columns exceeds 40%



#### TPH - DRO - MB

Sample ID: UQ38050-001

Batch: 38050

**Analytical Method: 8015C** 

Matrix: Solid Prep Method: 3550C

Prep Date: 12/05/2019 2318

Parameter	Result	Q Dil	LOQ	DL	Units	Analysis Date
TPH-DRO	ND	1	6700	3200	ug/kg	12/09/2019 1024
Surrogate	Q % Rec	Acceptance Limit				
o - Terphenyl	97	55-120				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

LOD = Limit of Detection

 $J = Estimated result < LOQ and \ge DL$ 

+ = RPD is out of criteria

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

#### **TPH - DRO - LCS**

Sample ID: UQ38050-002

Batch: 38050

Matrix: Solid Prep Method: 3550C

Analytical Method: 8015C

Prep Date: 12/05/2019 2318

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q Dil	% Rec	% Rec Limit	Analysis Date
TPH-DRO	83000	61000	1	74	70-130	12/09/2019 1043
Surrogate	Q % Rec	Acceptance Limit	е			
o - Terphenyl	95	55-120				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

#### TPH - DRO - MS

Sample ID: UL05034-006MS

**Batch:** 38050

Matrix: Solid Prep Method: 3550C

**Analytical Method: 8015C** 

Prep Date: 12/05/2019 2318

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
TPH-DRO	69000	110000	110000	N	1	34	70-130	12/09/2019 1355
Surrogate	Q % Rec		ptance imit					
o - Terphenyl	77	55	5-120					

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

#### TPH - DRO - MSD

Sample ID: UL05034-006MD

Batch: 38050

Matrix: Solid Prep Method: 3550C

**Analytical Method: 8015C** 

Prep Date: 12/05/2019 2318

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
TPH-DRO	69000	110000	150000	+	1	77	36	70-130	20	12/09/2019 1415
Surrogate	Q % Rec	Accepta Lim								
o - Terphenyl	78	55-1	20							

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

LOD = Limit of Detection

 $J = Estimated result < LOQ and \ge DL$ 

+ = RPD is out of criteria

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

#### TPH - DRO - MB

Sample ID: UQ38432-001

**Batch:** 38432

**Analytical Method: 8015C** 

Matrix: Solid Prep Method: 3550C

Prep Date: 12/10/2019 0935

Parameter	Result	Q Dil	LOQ	DL	Units	Analysis Date
TPH-DRO	ND	1	6700	3200	ug/kg	12/10/2019 1246
Surrogate	Q % Rec	Acceptance Limit				
o - Terphenyl	95	55-120		•		

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

LOD = Limit of Detection

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

#### **TPH - DRO - LCS**

Sample ID: UQ38432-002

Batch: 38432 Analytical Method: 8015C Matrix: Solid Prep Method: 3550C

Prep Date: 12/10/2019 0935

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
TPH-DRO	83000	67000		1	81	70-130	12/10/2019 1305
Surrogate	Q % Rec	Acceptanc Limit	се				
o - Terphenyl	97	55-120					

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection ND =

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

# Chain of Custody and Miscellaneous Documents

Document Number: ME002CW-31

Number Fax No. (803) 791-9111 Shealy Environmental Services, Inc. West Columbia, South Carolina 29172 06 Vantage Point Drive Telephone No. (803) 791-9700 Chain of Custody Record SHEALY

Remarks / Cooler LD. UL05034 **ダンソイ スマンブ** QC Requirements Ş Queza No 3 240 Time ine Receipt Temp. Possible Hazard Identification (List any known rezards in the remarks) andre baken@levatech.com. brendan.marth @levatech.com Date Analysis (Attach list if more space is needed) Date Dale X Nor-Haza dous Plammable Skin Intan: SSS provided Du Ce Pack 846 60100/7470A/7471B TAL Metals (with mercury)/SW Telephone No. / E-mail × TPH-DROVSW-646 3015C × × × LCF SAGC®/SM-846 8530D 4. Laboratory Received by Received on loe (Check) LCF AOC≈\2M-849 8590C LAB USE ONLY 2. Received by 3. Received by . Received by www.shealylab.com No of Containers by 49X 9E09 Preservative Type HOSN DH SONH X Disposal by Lab **∀OSZH** 1400 .sergnU N EIII I Tine E Time Retinguished by Explorer All samples are retained for four weeks from receipt Note: All samples are retained for four weeks from receipt massin snoenby Andre Baker and Brendan Martin Matrix -UON Return to Client × Grander Weet Semple Disposal Х X  $\times$  $\lambda$ X. X. X × blioS 15021 sinconb<sub>0</sub> Sampler's Signature Brenden Report to Contact C=Composite 9,8 ge*y*g=g 13.75 12.04/9 13.15 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 1 2220 0835 0927 Time 0929 ₹ 52 1037 1105 157 813021 120419 615021 81502 614021 15001 51602 20419 Date 120919 P.O No. SHLY-1 2/3 day Containers for each sample may be combined on one line; Winner-5011-04-120419-D Zip Code 1961-North-Soil-01-120419 914021-20-1102-120419 161-1014-5011-03-120419 WH- North - Soil-04-120419 cliet Chemical Fire PRP Cleanup Site My-East-5011-06-120419 18-501-07-120419 94-1204-50-11-08-120419 PS1-22-521-09-120419 Sample ID / Description N Rush (Please Specify) State Suite 3700 Reinquished by Madi 03X9031D0630002AJ001 1661- AB-120419 S. Wadter Drive. Relinquished by oject Number ojeci Name Stands-d etra Tech oddress

Shealy Environmental Services, Inc. Document Number: ME0018C-14 Page 1 of t Effective Date: 8/2/2018

#### Sample Receipt Checklist (SRC)

Client: TETRA TECH	Cooler Inspected by/date: ISH / 12/05/19 Lot #: UL05034
Means of receipt: SE	SI Client UPS FedBx Other:
	1. Were custody scals present on the cooler?
Yes No NA	If custody seals were present, were they intact and unbroken?
pH Strip ID: NA	Chlorine Strip ID: NA Tested by: NA
	receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: 19-2044
	A °C NA /NA °C NA /NA °C
	Blank Against Bottles IR Gun ID:5 IR Gun Correction Factor:0 °C
	Wet Ice  Ice Packs  Dry Ice  None
☐ Yes ☐ No ☑ NA	<ol> <li>If temperature of any cooler exceeded 6.0°C, was Project Manager Notified?</li> <li>PM was Notified by: phone / email / face-to-face (circle one).</li> </ol>
☑ Yes ☐ No ☐ NA	4. Is the commercial courier's packing slip attached to this form?
☑ Yes □ No	<ol><li>Were proper custody procedures (relinquished/received) followed?</li></ol>
☑ Yes ☐ No	6. Were sample IDs listed on the COC?
☑ Yes ☐ No	7. Were sample IDs listed on all sample containers?
☑ Yes ☐ No	8. Was collection date & time listed on the COC?
☑ Yes □ No	Was collection date & time listed on all sample containers?
☑ Yes ☐ No	10. Did all container label information (ID, date, time) agree with the COC?
☑ Yes ☐ No	11. Were tests to be performed listed on the COC?
☐ Yes ☑ No	12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
☑ Yes ☐ No	13. Was adequate sample volume available?
☑ Yes ☐ No	14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes No	15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
☐ Yes ☐ No ☑ NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼"or 6mm in diameter) in any of the VOA vials?
☐ Yes ☐ No ☑ NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
☐ Yes ☐ No ☑ NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
☐ Yes ☐ No ☑ NA	19. Were all applicable NH <sub>3</sub> /TKN/cyanide/phenol/625 (< 0.5mg/L) samples free of residual chlorine?
□Yes □No ☑NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc)
□Yes □No ☑NA	correctly transcribed from the COC into the comment section in LIMS?
☐ Yes ☑ No	21. Was the quote number listed on the container label? If yes, Quote # NA
Sample Preservation (N	dust be completed for any sample(s) incorrectly preserved or with headspace.)
Sample(s) NA	were received incorrectly preserved and were adjusted accordingly
in sample receiving with 1	NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA
Time of preservation NA	. If more than one preservative is needed, please note in the comments below,
Sample(s) NA	were received with bubbles >6 mm in diameter.
Samples(s) NA adjusted accordingly in sar	were received with TRC $\geq$ 0.5 mg/L (If #19 is $n\sigma$ ) and were mple receiving with sodium thiosulfate (Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ) with Shealy ID; NA
SR barcode labels applied	W. W
Comments: UL05034-0100	MPG1-RB) received with a broken lid.